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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/664,879	09/22/2003	Hideharu Takezawa	43888-276	4252	
MCDERMOT	7590 01/31/2007 Γ, WILL & EMERY	EXAMINER			
600 13th Street, N.W. Washington, DC 20005-3096			HODGE, ROBERT W		
wasnington, D	C 20005-3096		ART UNIT	PAPER NUMBER	
			1745		
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SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE		
3 MO	NTHS	01/31/2007	PAPER		

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

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		Application No.	Applicant(s)			
		10/664,879	TAKEZAWA ET AL.			
	Office Action Summary	Examiner	Art Unit			
		Robert Hodge	1745			
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the	correspondence addres	is		
WHIC - Exter after - If NO - Failu Any r	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DATE in time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. In period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATIO 36(a). In no event, however, may a reply be tile will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. mely filed n the mailing date of this commu ED (35 U.S.C. § 133).			
Status						
1)⊠	Responsive to communication(s) filed on 30 No	ovember 2006.				
2a) <u></u> □	This action is FINAL . 2b)⊠ This	action is non-final.				
3)	☐ Since this application is in condition for allowance except for formal matters, prosecution as to the ments is					
	closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 4	53 O.G. 213.			
Dispositi	on of Claims					
5)□ 6)⊠ 7)□	Claim(s) 1 and 5-7 is/are pending in the applicated of the above claim(s) is/are withdraw Claim(s) is/are allowed. Claim(s) 1 and 5-7 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or	vn from consideration.				
Applicati	on Papers					
9) <u></u> 10)⊠	The specification is objected to by the Examine The drawing(s) filed on 22 September 2003 is/a Applicant may not request that any objection to the Replacement drawing sheet(s) including the correction of the oath or declaration is objected to by the Ex	are: a) accepted or b) object drawing(s) be held in abeyance. Se ion is required if the drawing(s) is ob	ee 37 CFR 1.85(a). bjected to. See 37 CFR 1.	.121(d).		
Priority u	ınder 35 U.S.C. § 119					
12)[a)[Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priorical application from the International Bureausee the attached detailed Office action for a list	s have been received. s have been received in Applicat ity documents have been receiv ı (PCT Rule 17.2(a)).	tion No red in this National Stag	ge		
Attachment	t(s)					
2) 🔲 Notic 3) 🔯 Inforr	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date <u>10/31/06</u> .	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal I 6) Other:	oate			

DETAILED ACTION

Response to Arguments

Applicant's arguments, see Remarks, filed 11/30/06, with respect to the rejection(s) of claim(s) 1-7 under 35 U.S.C. 102(b) have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of Applicants' admitted prior art.

Drawings

Figures 3 and 4 should be designated by a legend such as --Prior Art-- because only that which is old is illustrated. See MPEP § 608.02(g). Corrected drawings in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Objections

Claim 7 is objected to under 37 CFR 1.75 as being a substantial duplicate of claim 5. When two claims in an application are duplicates or else are so close in content that they both cover the same thing, despite a slight difference in wording, it is

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proper after allowing one claim to object to the other as being a substantial duplicate of the allowed claim. See MPEP § 706.03(k).

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1 and 6 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

It is unclear how a "plurality of steps" can be present in the instant invention when there is only one edge that would contain a step, especially as illustrated in figure 1. Therefore as long as the prior art teaches "at least one step" as is seen in figure 1 it will read on the claim as so recited.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

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- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

Claims 1 and 5-7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Applicants' admitted Prior Art hereinafter AAPA in view of JP-11-27339 hereinafter Anzai.

As can clearly be seen in figure 3 of the instant application and described in applicants background section, AAPA teaches the instantly claimed invention except for the insulating member that covers a separator and current collector from an inner side of said electrode group.

Anzai teaches a non-aqueous electrolyte secondary battery having a spiral electrode group formed by winding positive and negative electrodes having a separator interposed between and a battery case for housing said electrode group. Anzai also teaches that the positive electrode includes a current collector and positive electrode material which when wound would be on both sides of the current collector and the negative electrode includes a current collector and negative electrode material which when wound would be on both sides of the current collector and tabs would be respectively connected to the current collectors. Anzai further teaches the necessity for the use of an ionic insulator arranged at an innermost or outermost circumferential side at the end (or step as applicants define in their specification) of the positive electrode and is adhered to a position opposing the end (abstract, paragraphs [0016]-[0021] and [0026]-[0038]).

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At the time of the invention it would have been obvious to one having ordinary skill in the art to include an ionic insulator in AAPA as taught by Anzai in order to prevent short circuiting of the electrode group within the battery thereby increasing the battery life and reducing any possible explosion hazards from the short circuit igniting hydrogen that is created during discharge of the battery.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Robert Hodge whose telephone number is (571) 272-2097. The examiner can normally be reached on 8:00am - 4:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick Ryan can be reached on (571) 272-1292. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

RWH

PATRICK JOSEPH RYAN
GUPERGIGORY PALIANT EXCERNIER